

Mayflower Pipeline Rupture

| Volatile Organics | | | | | | | | | | | | |
|----------------------|-------|--------|--------|------------|--------|--------|--------|--------|--------|--------|------------------------|-----|
| Chemical | Units | WS-003 | WS-002 | WS-BKG-001 | WS-005 | WS-001 | WS-007 | WS-006 | WS-008 | WS-004 | Eco SLs ⁽¹⁾ | |
| Chloroform | ug/l | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | 1.11 | <0.27 | 1.8 |
| Benzene | ug/l | <0.66 | <0.66 | <0.66 | <0.66 | <0.66 | <0.66 | <0.66 | <0.66 | 1.8 | <0.66 | 46 |
| Bromodichloromethane | ug/l | <0.65 | <0.65 | <0.65 | <0.65 | <0.65 | <0.65 | <0.65 | <0.65 | 0.659 | <0.65 | NA |
| Toluene | ug/l | <0.57 | 0.559 | <0.57 | <0.57 | <0.57 | 0.578 | <0.57 | 1.84 | <0.57 | 2.0 | |
| Ethylbenzene | ug/l | <0.51 | 0.523 | <0.51 | <0.51 | <0.51 | <0.51 | <0.51 | 0.879 | <0.51 | 7.3 | |
| m,p-Xylene | ug/l | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | 2.6 | <1.2 | NA | |
| o-Xylene | ug/l | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 2.12 | 0.501 | NA | |
| Total Zylenes | ug/l | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 | 4.72 | 0.501 | 13 | |
| Oil and Grease | mg/l | <2.5 | 3.3 | 3.5 | 3.5 | 3.1 | 2.5 | 2.7 | 10 | 2.7 | NA | |
| Semi-volatiles | | | | | | | | | | | | |
| Benzyl alcohol | ug/l | <0.16 | <0.16 | <0.16 | <0.16 | <0.16 | <0.16 | <0.16 | 0.775 | 8.6 | | |
| Acetophenone | ug/l | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.113 | <0.1 | <1 | 0.12 | | |
| Di-n-butyl phthalate | ug/l | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | 1.224 | <0.2 | <2 | 0.519 | | |

| | | | | | | | | | | | |
|----------|------|------|------|------|------|------|------|------|------|------|----|
| Vanadium | ug/l | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.65 | <0.5 | <0.5 | 0.57 | 19 |
| Zinc | ug/l | 1.77 | 2.1 | 57.8 | 4.01 | 5.73 | 22.8 | 4.92 | 10.7 | 8.1 | 30 |

| Total Metals | | | | | | | | | | | |
|--------------|-------|--------|--------|------------|--------|--------|--------|--------|--------|--------|------------------------|
| Chemical | Units | WS-003 | WS-002 | WS-BKG-001 | WS-005 | WS-001 | WS-007 | WS-006 | WS-008 | WS-004 | Eco SLs ⁽¹⁾ |
| Aluminum | ug/l | 304 | 209 | 361 | 211 | 854 | 1400 | 293 | 1950 | 691 | 5.0 |
| Antimony | ug/l | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | 30 |
| Arsenic | ug/l | <1 | <1 | <1 | <1 | 1.2 | 1.4 | 1.52 | 1.12 | 1.83 | 5.0 |
| Barium | ug/l | 18 | 16.2 | 43.5 | 17.1 | 19.3 | 23.4 | 16.2 | 37.1 | 33 | 3.9 |
| Beryllium | ug/l | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.53 |
| Boron | ug/l | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | 1.6 |
| Cadmium | ug/l | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 0.017 |
| Calcium | mg/l | 10.4 | 9.16 | 8.4 | 4.84 | 4.85 | 5.72 | 5.89 | 6.06 | 4.28 | 116 |
| Chromium | ug/l | <1 | <1 | <1 | <1 | 1.62 | 1.4 | <1 | 2.94 | 1.02 | 2.0 |
| Cobalt | ug/l | <1 | <1 | 1.2 | <1 | <1 | <1 | <1 | 1.96 | 1.22 | 3.0 |
| Copper | ug/l | <1 | <1 | 1.79 | 1.25 | 1.72 | 2.07 | 1.05 | 1.98 | 3.69 | 0.23 |
| Iron | ug/l | 628 | 539 | 380 | 897 | 1250 | 1820 | 1170 | 1850 | 2040 | 158 |
| Lead | ug/l | <1 | <1 | <1 | <1 | 1.42 | 1.82 | <1 | 2.62 | 6.94 | 1.0 |
| Magnesium | mg/l | 1.45 | 1.37 | 1.96 | 1.48 | 1.55 | 1.54 | 1.58 | 2.2 | 1.71 | 82 |
| Manganese | ug/l | 144 | 118 | 239 | 163 | 156 | 95.6 | 242 | 316 | 284 | 80 |
| Nickel | ug/l | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | 3.5 | 2.79 | 25 |
| Potassium | mg/l | 1.76 | 1.6 | <1 | 1.78 | 1.96 | 1.6 | 1.72 | 1.59 | 2.11 | 53 |
| Selenium | ug/l | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | 1.0 |
| Silver | ug/l | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | 0.12 |
| Sodium | mg/l | 5.19 | 4.48 | 5.74 | 5.13 | 4.89 | 3.68 | 5.94 | 4.13 | 3.82 | 680 |
| Thallium | ug/l | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | 0.8 |
| Vanadium | ug/l | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | 2.95 | <2.5 | 19 |
| Zinc | ug/l | <3 | <3 | 58.6 | <3 | 9.04 | 8.58 | 3.04 | 14 | 43 | 30 |

(1) Savannah River National Laboratory - Ecological Screening Values for Surface Water (2005)